

***flrt2*^{ihb415/+} (CZRC Catalog ID: CZ 1359)**

Nature of the mutation

Between 276bp to 285 bp of the wild-type *flrt2* coding sequence, GGTTTACCTGTACGGGAATC, is deleted in exon 1.

Sense Strand Sequence

GTAATGAGAGGAGCCTGACG TCTGTGCCTCTGGGGGTGCAAGAGGGATAACAAGAC
CCTCTTCCCTCCACAACAATCAGATCAATAATGCCGGCTTTCCATTGGAGCTACACAA
TGTTGCCTCTGTAGAAACGGTTTACCTGTAC GGGGAATCAGCTGGATGAATTTCCCC
TTAACCTTCCGAAGAATGTCCGAGTGTTCATCTCCAGGAAAACAACATCCAGAC
CATTTCAGGGCAGCACTTGCCCAGCTACACATGCTGGAGGAACTCCACCTGGAT
GACAACTCCATCTCAACTGTAGGGGTAGAGGAGGGGGCTTTTAGGGAGGCTCTCA
GTCTCAAACCTTCTTTTCCACCAAAAACCATCTAAGCAGTATCCCTATCGGATTAC
CTGCAGACCTAAAGGAGCTGCGTTTGGATGAGAATCGAATTGCAGACATTGACGA
GGATGCCTTTCAGAATGTCACCACCCTGCAGCGACTGTTACTGGATGGAACTTGC
TTGAGGATGAGGCCATTGCTCCTGGTACCTTCCAGGATTTGGTCAATCTCAAAGAA
CTGTCCCTGGCACGCAACTCCCTCACCGCTCCACCACCATTGCTCCCTAGCGTATC
CCTAACTAAGCTCAACCTGCAGGAAAACCAGATAGACA CTATTGAAGTGACAGCC
TTT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

flrt2_forward: 5' GTAATGAGAGGAGCCTGACG 3'

flrt2_reverse: 5' AAAGGCTGTCACTTCAATAG 3'



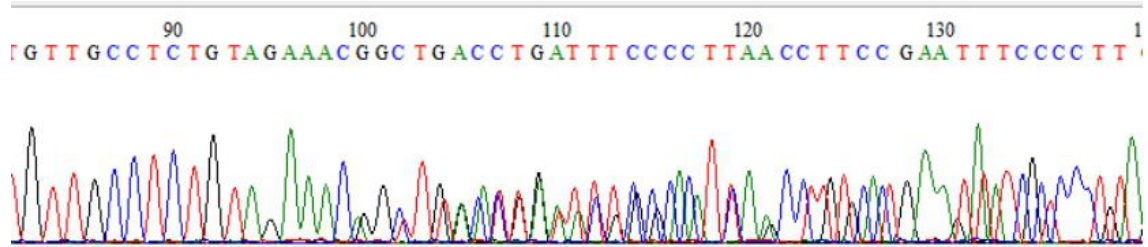


PCR program:

95°C 5min
 95°C 30 sec }
 58°C 30 sec } 30 Cycles
 72°C 30 sec }
 72°C 8min
 4°C hold

Product size: 671 bp

The sequencing results of the *flrt2^{ihb415/+}* :



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WT          TCTTCCTCCACAACAATCAGATCAATAATGCCGGCTTTCCATTGGAGCTACACAATGTTG
ihb415      TCTTCCTCCACAACAATCAGATCAATAATGCCGGCTTTCCATTGGAGCTACACAATGTTG
*****

WT          CCTCTGTAGAAACGGTTTACCTGTACGGGAATCAGCTGGATGAATTTCCCCTTAACCTTC
ihb415      CCTCTGTAGAAA-----CAGCTGGATGAATTTCCCCTTAACCTTC
*****

WT          CGAAGAATGTCCGAGTGTTCATCTCCAGGAAAACAACATCCAGACCATTTCCAGG
ihb415      CGAAGAATGTCCGAGTGTTCATCTCCAGGAAAACAACATCCAGACCATTTCCAGG
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Reference:

None

